| -, | Index of Claims                           |          |          |                     |          |                       |          |           |             |          |                             |            |          |         | Aş           | Application/Control No. |               |             |         |          |           |        |       |            |                 | Applicant(s)/Patent under Reexamination |            |       |         |         |        |        |          |
|----|---|----------|----------|---------------------|----------|-----------------------|----------|-----------|-------------|----------|-----------------------------|------------|----------|---------|--------------|-------------------------|---------------|-------------|---------|----------|-----------|--------|-------|------------|-----------------|---|------------|-------|---------|---------|--------|--------|----------|
|    |   |          |          |                     |          |                       |          |           |             |          |                             |            |          |         | 10           | 10/618,038              |               |             |         |          |           |        |       |            |                 | HEI                                     |            |       |         |         |        |        |          |
|    |   | Ш        |          |                     |          |                       |          |           |             |          |                             |            |          |         |              |                         | Examiner      |             |         |          |           |        |       |            |                 | CHEN ET AL. Art Unit                    |            |       |         |         |        |        |          |
| _  | ाणातामास्यामस्यामस्यामस्यामस्यामस्यामस्या |          |          |                     |          |                       |          |           |             |          |                             |            |          |         |              | Ar                      | Angela M. Lie |             |         |          |           |        |       |            |                 | 2821                                    |            |       |         |         |        |        |          |
|    |   |          |          |                     |          |                       |          |           |             |          |                             |            |          |         |              | <u> </u>                |               |             |         |          |           |        |       | П          |                 |   |            |       |         | _       |        |        |          |
|    |   |          | Rejected |                     |          | d                     |          |           | <u> - </u>  |          | (Through numer<br>Cancelled |            |          | ai)     |              | N                       | 1             | Non-Elected |         |          | A         | Appeal |       |            |                 |   |            |       |         |         |        |        |          |
|    |   | =        | Allowed  |                     |          | 1                     |          |           | lacksquare  |          | Restricted                  |            |          |         |              | Ī                       | I Interf      |             | fere    | rence    |           |        | 0     | Objected   |                 |   |            |       |         |         |        |        |          |
|    | Ci  | aim      |          | Date                |          |                       |          |           |             |          | 1                           | Claim      |          |         |              | Date                    |               |             |         |          |           | ٦      | Cla   | im         |                 | Date                                    |            |       |         |         |        |        | }        |
|    |   |          |          |                     |          |                       |          | Т         | Т           | Т        | П                           |            |          | T       |              | П                       | Ť             | Ť           | Π       |          |           | 1      |       |            | П               | Т                                       | TTTTTTTTTT |       |         | Т       | Τ      |        |          |
|    | Final                                     | Original | 14106    |                     |          |                       |          |           |             | ŀ        |                             | Final      | Original |         |              |                         |               |             |         |          |           |        | Final | Original   |                 |   |            | İ     |         |         |        |        |          |
|    | E   | 1        | Ξ        |                     | $\pm$    | 1                     | $\pm$    | $\pm$     | $\exists$   | $\pm$    | $\exists$                   |            | 51       | t       |              |                         | $\pm$         | 士           | $\perp$ |          | Ⅎ         | L      |       | 101        | Н               | $\pm$                                   | $\pm$      | $\pm$ | $\pm$   | $\pm$   | $\pm$  | L      |          |
|    |   | 2        | <i>"</i> | П                   | 4        | $\dashv$              | 7        | $\bot$    | 4           | 4        | 7                           |            | 52       |         |              | Н                       | $\bot$        | 1           | F       | П        | 7         | F      |       | 102<br>103 | П               | 4                                       | $\bot$     | Ŧ     | Ţ       | Ţ       |        | F      |          |
|    | $\vdash$                                  | 3        | =        | Н                   | $\dashv$ | +                     | $\dashv$ | +         | ┪           | +        | ┨                           | $\vdash$   | 54       |         | -            | H                       | +             | ╫           | ╁       | H        | $\dashv$  | ŀ      | -     | 103        | Η               | +                                       | +          | +     | ╁       | +       | ╁      | ╁      |          |
|    |   | 5        | ))       |                     | 二        | 士                     | 士        | 士         |             | 士        | ゴ                           |            | 55       |         |              |                         |               | 士           | L       | П        | ゴ         |        |       | 105        |                 | コ                                       | 士          | 士     |         | 1       | 士      |        | Į        |
|    | <u> </u>                                  | 7        | -        | $\vdash \downarrow$ | 4        | 4                     | 4        | 4         | 4           | 4        | 4                           | <b> </b> - | 56<br>57 |         | ┢            | $\dashv$                | +             | +           | ╀       | ₩        | $\dashv$  | ŀ      |       | 106<br>107 | $\vdash \vdash$ | +                                       | +          | +     | ┿       | +       | +      | ╀      |          |
|    | -   | 1        |          | Н                   | $\dashv$ | +                     | +        | +         | ┪           | +        | $\dashv$                    | -          | 58       |         | ┢            | $\vdash$                | +             | ╁           | ╁       | ╁        | $\dashv$  | ŀ      |       | 108        | ╂╼╂             | +                                       | ╅          | 十     | ╅       | +       | +      | ╁      |          |
|    |   | 9        | Σ        |                     | コ        | コ                     | コ        | 1         |             | ユ        |                             |            | 59       | Τ       |              |                         | 1             | 土           |         | П        | _         | t      |       | 109        |                 | İ                                       |            | I     | 土       | 1       | 工      | 匚      |          |
|    |   | 20       | N        | Ц                   | $\dashv$ | 4                     | 4        | $\bot$    | 4           | 4        | 4                           | $\vdash$   | 60<br>61 |         | -            | Н                       | +             | +           | ╄       | Н        | 4         | -      |       | 110        | $\square$       | 4                                       | _          | 1     | 4       | 1       | 4      | 1      |          |
|    |   | 11       | Н        | $\vdash$            | ╅        | +                     | ┽        | +         | ᅱ           | ╁        | -                           | -          | 62       |         | H            | H                       | +             | 十           | ╁╴      | H        | ᅱ         | ŀ      |       | 111<br>112 | $\vdash$        | +                                       | +          | +     | +       | ╁       | ╁      | ╁      |          |
|    |   | 13       |          |                     | _        | 1                     | 士        | 士         | ╛           | 士        |                             |            | 63       | T       |              |                         | 1             | 工           | 工       | П        |           | t      |       | 113        |                 | 1                                       | 土          | İ     | 1       | 1       | 上      |        |          |
|    |   | 14       | $\Box$   | $\Box$              |          | $\bot$                | 4        | 4         | $\exists$   | 4        |                             |            | 64<br>65 |         | ┡            | Ц                       | 4             | _           | 1       | Н        | 4         | -      |       | 114<br>115 | $\sqcup$        | 4                                       | 4          | +     | +       | +       | _      | ↓_     | 1        |
|    | -   | 15       | Н        | Н                   | $\dashv$ | +                     | +        | +         | ┥           | +        | ┨                           | -          | 66       |         | $\vdash$     | $\vdash$                | +             | ╁           | ╁       | ╁┼       | $\dashv$  | ŀ      |       | 116        | H               | +                                       | +          | +     | +       | +       | +      | ╁      | 1        |
|    |   | 17       |          |                     | コ        | İ                     | #        | 二         | コ           | 士        | 1                           |            | 67       | $\perp$ | 匚            |                         |               | 工           | I       |          |           | Ì      |       | 117        |                 | 1                                       |            | 工     |         | 1       |        |        | 1        |
|    | <u> </u>                                  | 18       |          | Ы                   | 4        | 4                     | 4        | 4         | 4           | _  -     | 4                           | <u> </u>   | 68       |         | ┞            | $\sqcup$                | 4             |             | ╄       | Н        | 4         | ŀ      | _     | 118        | Н               | 4                                       | +          | +     | +       | +       | +      | ╀      | ļ        |
|    | -   | 19       | Н        | Н                   | ┰        | ┪                     | +        | +         | ┥           | +        | $\dashv$                    | $\vdash$   | 69<br>70 |         | ┢            | Н                       | +             | ╁           | ╫       | ╁        | $\dashv$  | ŀ      |       | 119<br>120 | Н               | +                                       | +          | ╁     | ╁       | ┿       | +      | ╁╌     |          |
|    |   | 21       |          |                     | 1        | _                     |          | 1         |             | $\pm$    | _                           |            | 71       |         |              |                         | $\pm$         | 土           | 1       |          | ゴ         | t      |       | 121        |                 | 1                                       | 土          | 1     | İ       | 土       | 土      | T      | 1        |
|    |   | 22       |          | П                   | $\Box$   | $\operatorname{\Box}$ | $\Box$   | $\Box$    | $\sqsupset$ | $\dashv$ | 7                           |            | 72       |         | Ш            | П                       | $\Box$        | Ţ           | $\perp$ |          | $\exists$ | Į      |       | 122        | П               | $\downarrow$                            | $\bot$     | Ţ     | 1       | 7       | 1      | L      | ]        |
|    | _   | 23       | Н        | Н                   | $\dashv$ | +                     | +        | +         | -           | $\dashv$ | -{                          | -          | 73<br>74 |         | ┢            | ⊢                       | +             | ┿           | ╀       | ╂╌╂      | $\dashv$  | ŀ      |       | 123<br>124 | Н               | +                                       | +          | +     | ╬       | +       | ┿      | ╁      | {        |
|    | -   | 25       | H        | Н                   | 十        | ┪                     | +        | ╅         | ┪           | 十        | ┥                           | -          | 75       |         | 1            | H                       | 十             | +           | 十       | H        | $\dashv$  | ł      |       | 125        | Н               | $\dagger$                               | $\top$     | †     | +       | 十       | 十      | ╁╌     | 1        |
|    |   | 26       |          |                     |          | I                     |          | $\Box$    |             | 1        | コ                           |            | 76       |         |              |                         | 1             |             | 工       | П        | $\Box$    |        |       | 126        |                 | 1                                       |            | I     |         | 1       | 工      |        | 1        |
|    | <u> </u>                                  | 27       |          | Н                   | $\dashv$ | 4                     | 4        | 4         | _           | _        | 4                           | <b> </b>   | 77       |         | <del> </del> | ╌┼                      | $\dashv$      | 4           | ╄       | ┦        | 4         | ŀ      |       | 127        | Н               | 4                                       | -          | 4     | +       | +       | -      | ┼      |          |
|    | <u> </u>                                  | 28       | ┞┤       | H                   | $\dashv$ | $\dashv$              | ┥        | +         | ┥           | ┰┼       | $\dashv$                    | -          | 78<br>79 |         | ╁            | $\vdash$                | +             | +           | ╂╌      | $\vdash$ | $\dashv$  | ŀ      |       | 128<br>129 | Н               | ┪                                       | ╁          | ╁     | ╁       | ╁       | ╌      | ╁      | ł        |
|    |   | 30       | $\vdash$ | H                   | 十        | 7                     | +        | $\dashv$  | ┪           | 十        | ┥.                          | <u> </u>   | 80       |         | $\vdash$     | H                       | 1             | $\top$      | 1       | П        | 1         | t      |       | 130        |                 | ⇉                                       | 士          | 1     | I       | $\perp$ | 土      |        | <b>j</b> |
|    |   | 31       |          |                     | $\Box$   | $\Box$                | $\Box$   | $\supset$ | $\Box$      | $\Box$   | 7                           |            | 81       |         | 匚            | $\Box$                  | $\Box$        | L           |         | П        | 7         | Ţ      |       | 131        |                 | $\perp$                                 | $\Box$     | 1     | $\perp$ | 4       | Ţ      | $\bot$ | ]        |
|    |   | 32<br>33 | ⊢        | ┝┥                  | $\dashv$ | 4                     | ┥        | +         | $\dashv$    | +        | -                           |            | 82       |         | ┼-           | ⊢                       | +             | +           | ╀       | ₩        | 4         | ŀ      |       | 132<br>133 | Н               | +                                       | +          | +     | ╁       | +       | +      | ┿      | ł        |
|    | $\vdash$                                  | 34       | H        | Н                   | $\dashv$ | +                     | $\dashv$ | +         | -           | 十        | ┨                           | -          | 84       |         | ╁            | ┝┼                      | $\dashv$      | +           | +       | ╁┼       | ᅱ         | ŀ      |       | 134        | H               | +                                       | +          | +     | +       | ╁       | +      | ╁      | 1        |
|    |   | 35       |          |                     |          |                       | I        |           |             |          |                             |            | 85       |         | 匚            |                         | ユ             |             | I       | П        | ゴ         | Į      |       | 135        |                 |   | $\Box$     |       | 工       |         | 工      |        | 1        |
|    |   | 36       | L        | П                   | $\dashv$ | $\dashv$              | 4        | $\exists$ | _           | 4        | 7                           |            | 86       |         |              | П                       | 4             | 4           | $\perp$ | П        | 4         | ļ      |       | 136        | Ш               | 4                                       | $\perp$    | 4     | 1       | 1       | 4      | 1      | 1        |
|    | $\vdash$                                  | 37       | $\vdash$ | Н                   | $\dashv$ | $\dashv$              | $\dashv$ | +         | -           | +        | $\dashv$                    | -          | 87<br>88 |         | ┢            | $\vdash \vdash$         | ╅             | +           | ╁       | ╀        | $\dashv$  | ŀ      |       | 137<br>138 | ₩               | +                                       | +          | +     | +       | +       | +      | +      | 1        |
|    |   | 39       | Г        | $\Box$              | ╛        | Ⅎ                     |          | ナ         | _           | 士        | ╛                           |            | 89       |         | t            |                         | 士             | 士           | 士       | 口        | $\exists$ | t      |       | 139        | 口               | ╛                                       | 士          | 士     | 士       | 1       | 士      | 上      | 1        |
|    |   | 40       |          | П                   | コ        | 1                     | コ        | 7         |             | $\Box$   | 7                           |            | 90       |         | $\Box$       | П                       | 1             | 工           | I       | П        | $\Box$    | Ţ      |       | 140        | П               | I                                       | T          | I     | $\perp$ | Ţ       | Ţ      | Γ      | 1        |
|    | -   | 41       | -        | $\vdash \vdash$     | $\dashv$ | 4                     | +        | +         | 4           | $\dashv$ | -                           | $\vdash$   | 91       |         | ╀            | ┝╌┼                     | +             | +           | ╀       | ╁╌╂      | {         | }      |       | 141        | ╀┤              | $\dashv$                                | +          | +     | +       | +       | ┿      | +      | -        |
|    | -   | 43       | H        | H                   | 十        | ┪                     | $\dashv$ | +         | ┥           | $\dashv$ | $\dashv$                    | $\vdash$   | 93       |         | $\vdash$     | H                       | +             | +           | +       | ╁┪       | $\dashv$  | ł      |       | 143        | H               | 1                                       | +          | †     | _       | †       | $\top$ | T      | 1        |
|    |   | 44       |          | 口                   | コ        | コ                     | I        | $\Box$    | ╛           |          |                             |            | 94       |         | L            | 口                       | コ             | 工           | Ţ       | П        |           | Ţ      |       | 144        | 口               | $\Box$                                  | 耳          | 1     | $\bot$  | 1       | T      | Γ      | ]        |
|    | <u> </u>                                  | 45<br>46 | -        | $\vdash$            | -+       | 4                     |          | +         | 4           | +        | $\dashv$                    | -          | 95       |         | ╀            | ╁┼                      | +             | +           | ╀       | ╀        | ᅱ         | ŀ      |       | 145<br>146 | ⊢╂              | $\dashv$                                | +          | +     | +       | +       | +      | ╀      | 1        |
|    | <u> </u>                                  | 46       | 1_       | ш                   | _        | _1                    | _        | 4         | _           | _        | _                           | $\vdash$   | 190      | ш       | 1_           | ш                       | _             |             |         | 4        | _         | - 1    |       | 140        | <b>↓</b>        | 4                                       | _          | _     |         | 4       |        | ┷      | į.       |

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